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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/598,261	08/23/2006	Josephus Christiaan Maria Hendricx	NL 040263	2052
24737 7590 06/10/2010 PHILIPS INTELLECTUAL PROPERTY & STANDARDS			EXAMINER	
P.O. BOX 3001		SNYDER, ZACHARY J		
BRIARCLIFF MANOR, NY 10510			ART UNIT	PAPER NUMBER
			2889	
			MAIL DATE	DELIVERY MODE
			06/10/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary		Application No.	Applicant(s)			
		10/598,261	HENDRICX ET AL.			
		Examiner	Art Unit			
		Zachary Snyder	2889			
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
	Responsive to communication(s) filed on 0/1	farch 2010				
•	Responsive to communication(s) filed on <u>04 March 2010</u> . This action is FINAL . 2b) This action is non-final.					
′=	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
<i>ا</i> ل	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
 4) Claim(s) 1-6 and 8-21 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-6 and 8-21 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 						
Application Papers						
9)	The specification is objected to by the Examine	er.				
10)	The drawing(s) filed on is/are: a) ☐ acc	epted or b) \square objected to by the E	Examiner.			
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).			
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority ι	ınder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
2) Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da	ate			
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application 6) Other:						

DETAILED ACTION

Response to Amendment

Receipt is acknowledged of applicant's amendment filed 3/4/2010. Claims 1-6 and 8-21 repending and an action on the merits is as follows.

Specification

1. The amendment filed 03/04/2010 is objected to under 35 U.S.C. 132(a) because it introduces new matter into the disclosure. 35 U.S.C. 132(a) states that no amendment shall introduce new matter into the disclosure of the invention. The added material which is not supported by the original disclosure is as follows: "the molar percentage ratio CaI2/(NaI + TII + CaI2 + XI3) is greater than 45%" (recited in claim 1); "the molar percentage ratio CaI2/(NaI + TII + CaI2 + XI3) is less than 90%" (recited in claim 8); "the molar percentage ratio CaI2/(NaI + TII + CaI2 + XI3) is less than 80%" (recited claims 9-10).

Applicant is required to cancel the new matter in the reply to this Office Action.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1, 4, and 8-10 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the

relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Claim 1 claims that the molar percentage ratio CaI2/(NaI + TII + CaI2 + XI3) is greater than 45%. The specification does not support this claimed limitation but rather that the molar percentage ratio CaI2/(NaI + TII + CaI2 + CeI3) lies between 20 and 90%, in particular between 35 and 85%, more in particular between 45 and 80%.

Claim 8 claims that the molar percentage ratio CaI2/(NaI + TII + CaI2 + XI3) is less than 90%. The specification does not support this claimed limitation but rather that the molar percentage ratio CaI2/(NaI + TII + CaI2 + CeI3) lies between 20 and 90%, in particular between 35 and 85%, more in particular between 45 and 80%.

Claims 9 and 10 claim that the molar percentage ratio CaI2/(NaI + TII + CaI2 + XI3) is less than 80%. The specification does not support this claimed limitation but rather that the molar percentage ratio CaI2/(NaI + TII + CaI2 + CeI3) lies between 20 and 90%, in particular between 35 and 85%, more in particular between 45 and 80%.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 5, 11, and 12 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 5, 11, and 12 claim that "the amount of NaI, TII, CaI₂ and XI₃ lies between 0.025 and 0.3 g/cm³," but it is unclear whether the volume cm³ is referring to in the interior volume of

the discharge vessel or some other volume of the lamp. For the purpose of examination, it is assumed to refer to the interior volume of the discharge vessel.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-4, 6, 13-15, 1—19 and 21 are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. PG Publication 2003/0102808 A1 to Dakin et al.

In regard to claim 1, Dakin discloses in figure 1 a lamp comprising:

A discharge vessel (discharge chamber 50);

An outer envelope (shown in figure 1, unlabelled) surrounding the discharge vessel and having a ceramic wall which encloses a discharge space filled with a filling comprising an inert gas, and an ionizable salt (fill includes an inert gas and a salt, paragraph 24); and

Two electrodes (electrodes 52, 54, paragraph 16) arranged in the discharge space having tops with a mutual interspacing so as to define a discharge path between the tips;

Said ionizable salt consisting of NaI, TII, CaI2, and XI3, wherein X is selected from the group consisting of rare earth metals (table in paragraph 24, RE halide, Na halide, Tl halide, and alkaline earth metal halide, Cs halide can have molar fraction of 0%, the alkaline earth metal can be calcium, paragraph 26) and a molar percentage ratio CaI2/(NaI + TII + CaI2 + CeI3) is greater

than 45% (using the parameters in paragraph 24, this relationship is met by the choices of NaI at 45%, TII at 5%, CaI2 at 45%, and CeI3 at 5%).

In regard to claim 2, Dakin discloses the limitations of claim 1 and that X is selected from the group consisting of Pr, Lu, and Nd (the rare earth is selected from neodymium, paragraph 24).

In regard to claim 3, Dakin discloses the limitations of claim 1, and that X is Ce and wherein the molar percentage ration CeI3/(NaI + TII + CaI2 + CeI3) lies between 0.5 and 7% (using the parameters in paragraph 24, this relationship is met by the choices of NaI at 45%, TII at 5%, CaI2 at 45%, and CeI3 at 5%).

In regard to claim 4, Dakin discloses the limitations of claim 1 and that X is Ce and wherein a molar percentage ratio CaI2/(NaI + TII + CaI2 + CeI3) is less than 90% (using the parameters in paragraph 24, this relationship is met by the choices of NaI at 45%, TII at 5%, CaI2 at 45%, and CeI3 at 5%).

In regard to claims 6, 13, 14, and 15, Dakin discloses the limitations of claims 1, 2, 3, and 4 and that the filling comprises Hg (mercury fill, paragraph 24).

In regard to claim 8, Dakin discloses the limitations of claim 3 and that a molar percentage ratio CaI2/(NaI + TII + CaI2 + CeI3) is less than 90% (using the parameters in

paragraph 24, this relationship is met by the choices of NaI at 45%, TII at 5%, CaI2 at 45%, and CeI3 at 5%).

In regard to claim 9, Dakin discloses the limitations of claim 3 and that a molar percentage ratio CaI2/(NaI + TII + CaI2 + CeI3) is less than 80% (using the parameters in paragraph 24, this relationship is met by the choices of NaI at 45%, TII at 5%, CaI2 at 45%, and CeI3 at 5%).

In regard to claim 10, Dakin discloses the limitations of claim 4 and that a molar percentage ratio CaI2/(NaI + TII + CaI2 + CeI3) is less than 80% (using the parameters in paragraph 24, this relationship is met by the choices of NaI at 45%, TII at 5%, CaI2 at 45%, and CeI3 at 5%).

In regard to claims 17, 18, 19, and 21, Dakin discloses the limitations of claims 1, 3, 4, and 10.

The Examiner notes that the limitation in claims 17, 18, 19, and 21, "wherein a rated power of the lamp is 30W" is an intended use type limitation. A recitation of the intended use of the claimed invention must result in a structural difference between the claimed invention and the prior art in order to patentably distinguish the claimed invention over the prior art. If the prior art structure is capable of performing the intended use, then it meets the claim.

Claims 1, 5-6, 16 and 20 are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. PG Publication 2002/0185973 A1 to Jackson et al.

In regard to claim 1, Jackson discloses in figure 8, a lamp comprising:

A discharge vessel (arc tube 20);

An outer envelope (outer bulb 10) surrounding the discharge vessel and having a ceramic wall which encloses a discharge space filled with a filling comprising an inert gas, and an ionizable salt (a mixture of noble gases and a salt mixture, paragraph 44); and

Two electrodes (electrodes shown in figure 9) arranged in the discharge space having tops with a mutual interspacing so as to define a discharge path between the tips (shown in figure 9);

Said ionizable salt consisting of NaI, TII, CaI2, and XI3, wherein X is selected from the group consisting of rare earth metals (salt mixture composed of sodium iodide, calcium iodide, thallium iodide, and several rare earth iodides, paragraph 44) a molar percentage ratio CaI2/(NaI + TII + CaI2 + CeI3) is greater than 45% (using the parameters in paragraph 40, this relationship is met by the choices of NaI at 14%, TII at 7%, CaI2 at 43%, DyI3 at 12%, HoI at 12%, and TmI3 at 12%).

In regard to claim 5, Jackson discloses the limitations of claim 1 and that the amount of NaI, TII, CaI₂ and XI₃ lies between 0.025 and 0.3 g/cm³ (salt mixture composed of sodium iodide, calcium iodide, thallium iodide, and several rare earth iodides, paragraph 44, there are 10-50 mg of the salt, paragraph 72, and the inner dimensions of the lamp are 7.4 mm diameter and 26 mm length, paragraph 40).

In regard to claims 6 and 16, Jackson discloses the limitations of claims 1 and 5 and that the filling comprises Hg (metallic mercury, paragraph 44).

In regard to claim 20, Dakin discloses the limitations of claim 5.

The Examiner notes that the limitation in claim 20, "wherein a rated power of the lamp is 30W" is an intended use type limitation. A recitation of the intended use of the claimed invention must result in a structural difference between the claimed invention and the prior art in order to patentably distinguish the claimed invention over the prior art. If the prior art structure is capable of performing the intended use, then it meets the claim.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 5, 11, and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. PG Publication 2003/0102808 A1 to Dakin et al.

In regard to claims 5, 11, and 12, Dakin discloses the limitations of claims 1, 3, and 4. However Dakin does not specifically disclose that the amount of NaI, TII, CaI2 and XI3 lies between 0.025 and 0.3 g/cm3.

However, at the time of the invention, it would have been obvious to one of ordinary skill in the art, having the teachings of Dakin before him or her, to modify the salt composition of Dakin so that the amount of NaI, TII, CaI2 and XI3 lies between 0.025 and 0.3 g/cm3 in order to produce the smallest functional lap with the improved lifetime afford by Dakin. Dakin teaches in paragraph 29 that the lamp contains 50 mg of salt so a lamp with a volume between .167 and 2 cc would read on the claimed limitations. One of ordinary skill in the art would realize that producing a lamp with a 2 cc internal volume would result in a greater commercial application due to the smaller size.

Conclusion

Applicant's amendment on 3/4/2010 necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Zachary Snyder whose telephone number is (571)270-5291. The examiner can normally be reached on Monday through Friday, 9:30AM to 6PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Toan Ton can be reached on (571)272-2303. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Art Unit: 2889

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information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Toan Ton/

/Zachary Snyder/ Examiner, Art Unit 2889

Supervisory Patent Examiner, Art Unit 2889